AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (Currently Amended) A process for a making an arc tube, comprising the steps of:
- sintering an arc tube composition to form an arc tube; and annealing the arc tube in a vacuum, wherein said arc tube composition has an alumina content of about 99.99%, and wherein said alumina has a particle size up to about 10 μ m.
- 2. (Original) The process according to claim 1 wherein the annealing step occurs at a temperature from about 1000 °C to 1500 °C.
- 3. (Original) The process according to claim 2 wherein the annealing step occurs at about 1200 °C.
- 4. (Original) The process according to claim 1 wherein the step of sintering an arc tube composition to form an arc tube includes forming a ceramic arc tube.
- 5. (Original) The process according to claim 1 further comprising the step of filling the arc tube.
- 6. (Original) The process according to claim 5 further comprising the step of filling the arc tube with mercury.
- 7. (Original) The process according to claim 6 further comprising the step of filling the arc tube with mercury having a weight between about 5.5 and 6.5 milligrams.

- 8. (Original) The process according to claim 5 further comprising the step of filling the arc tube with halide.
- 9. (Original) The process according to claim 8 further comprising the step of filling the arc tube with a halide having a weight between 10 and 15 milligrams.
- 10. (Original) The process according to claim 1 wherein the annealing step includes maintaining a pressure of about 10⁻⁶ torr.
- 11. (Original) The process of claim 1 wherein the arc tube has a gap length between about 7.5 and 8 mm.
- 12. (Currently Amended) A process for making a ceramic metal halide lamp comprising the steps of:

sintering an arc tube composition having a particle size up to about 10 μm to form an arc tube;

annealing the arc tube at a temperature from about 1000° to about 1500°C; and

sealing the arc tube.

- 13. (Original) The process according to claim 12 wherein the annealing step includes maintaining a pressure of about 10⁻⁶ torr.
- 14. (Original) The process according to claim 12 further comprising the step of filling the arc tube.
- 15. (Original) The process according to claim 14 further comprising the step of filling the arc tube with mercury.
- 16. (Original) The process according to claim 15 further comprising the step of filling the arc tube with mercury having a weight between about 5.5 and 6.5 milligrams.

- 17. (Original) The process according to claim 14 further comprising the step of filling the arc tube with a halide.
- 18. (Original) The process according to claim 17 further comprising the step of filling the arc tube with a halide having a weight between 10 and 15 milligrams.
- 19. (Original) The process according to claim 12 wherein annealing occurs at a temperature of about 1200 °C.
- 20. (Original) The process according to claim 12 wherein the step of annealing includes annealing the arc tube in a vacuum.